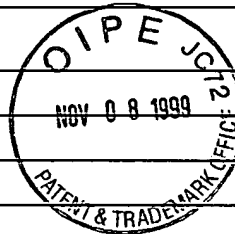


FORM PTO-1449 (Modified)				ATTY. DOCKET NO.		SERIAL NO	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT				C1039/7022		09/337,893	
				APPLICANT Krieg			
				FILING DATE June 21, 1999		GROUP 1633	
U.S. PATENT DOCUMENTS							
Exam Init	Ref Des	Document No.	Date	Name	Class	Sub Class	FILING DATE If Appropriate
*	<i>h</i>	3,906,092	09/16/75	Hilleman et al.	424	89	
*	<i>h</i>	5,248,670	09/28/93	Draper et al.	514	44	
*	<i>h</i>	5,585,479	12/17/96	Hoke et al.	536	24.5	
*	<i>h</i>	5,663,153	09/02/97	Hutcherson et al.	514	44	
*	<i>h</i>	5,723,335	03/03/98	Hutcherson et al.	435	375	
*	<i>h</i>	5,786,189	07/28/98	Locht et al.	435	172.3	
*	<i>h</i>	5,849,719	12/15/98	Carson et al.	514	44	
FOREIGN PATENT DOCUMENTS							
		Country & Doc. No. (11)	Pub. Date (43)		Class	Sub Class	Translation Yes No
9/27/00	*	<i>h</i> WO 91/12811	09/05/91	PCT WO	A61K	31/70	
9/27/00	*	<i>h</i> 0468520 A3	01/29/92	EPØ	A61K	31/70	
9/27/00	*	<i>h</i> WO 92/03456	03/05/92	PCT WO	C07H	15/42	
9/27/00	*	<i>h</i> WO 92/18522	10/29/92	PCT WO	C07H	21/00	
9/27/00	*	<i>h</i> WO 92/21353	12/10/92	PCT WO	A61K	31/70	
9/27/00	*	<i>h</i> 0302758-81 B1	03/16/94	EPØ	C12N	15/37	
9/27/00	*	<i>h</i> WO 94/19945	09/15/94	PCT WO	A01N	43/04	
9/27/00	*	<i>h</i> WO 95/05853	03/02/95	Regents of the University of CA WO	—	—	
9/27/00	*	<i>h</i> WO 95/26204	10/95	PCT WO	A61K	48/00	
9/27/00	*	<i>h</i> WO 96/02555	02/01/96	PCT WO	—	—	
9/27/00	*	<i>h</i> WO 96/35782	11/14/96	Applied Research Systems WO	—	—	
9/27/00	*	<i>h</i> WO 97/28259	08/07/97	PCT WO	C12N	15/00	
9/27/00	*	<i>h</i> WO 98/18810	05/07/98	PCT	C07H	21/00	
9/27/00	*	<i>h</i> WO 98/37919	09/03/98	PCT	A61K	49/00	
9/27/00	*	<i>h</i> WO 98/40100	09/17/98	PCT	A61K	39/39	
9/27/00	*	<i>h</i> WO 98/52581	11/26/98	PCT	A61K	35/00	
9/27/00	*	<i>h</i> WO 98/14210	04/09/98	PCT WO	A61K	39/35	
OTHER ART							
(Including Author, Title, Date, Pertinent Pages, Publication, Etc.)							



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*	✓	Angier, N., Microbe DNA Seen as Alien By Immune System, <i>New York Times</i> , 4/11/95			
*	✓	Azad RF et al., Antiviral Activity of a Phosphorothioate Oligonucleotide Complementary to RNA of the Human Cytomegalovirus Major Immediate-Early Region. <i>Antimicrobial Agents and Chemotherapy</i> , 37:1945-1954, September, 1993.			
*	✓	Azuma, Biochemical and Immunological Studies on Cellular Components of Tubercle Bacilli, <i>Kekkaku</i> , Vol. 69, 9:45-55, 1992.			
*	✓	Ballas ZK et al., Induction of NK activity in murine and human cells by CpG motifs in oligodeoxynucleotides and bacterial DNA. <i>J Immunol</i> 157(5):1840-5, 1996.			
C1	✓	Ballas, ZK et al., "A patient with simultaneous absence of "classical" natural killer cells (CD3-, CD16+, and NKH1+) and expansion of CD3+, CD4-, CD8-, NKH1+ subset", <i>J Allergy Clin Immunol.</i> , 453-459, (1990)			
*	✓	Bayever, E., Systemic Administration of a Phosphorothioate Oligonucleotide with a Sequence Complementary to p53 for Acute Myelogenous leukemia and Myelodysplastic Syndrome: Initial Results of a Phase I Trial, <i>Antisense Res. & Dev.</i> (1993), 3:383-390.			
*	✓	Bennett RM et al., DNA binding to human leukocytes. Evidence for a receptor-mediated association, internalization, and degradation of DNA. <i>J Clin Invest</i> 76(6):2182-90, 1985.			
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*	✓	Blaxter et al., Genes expressed in <i>Brugia malayi</i> infective third stage larvae. <i>Molecular and Biochemical Parasitology</i> , 77:77-93.			
*	✓	Boggs RT et al., Characterization and modulation of immune stimulation by modified oligonucleotides. <i>Antisense Nucleic Acid Drug Dev</i> 7(5):461-71, Oct 1997.			
*	✓	Branda RF et al., Amplification of antibody production by phosphorothioate oligodeoxynucleotides. <i>J. Lab Clin Med</i> 128(3):329-38, Sep 1996.			
*	✓	Branda et al., Immune Stimulation by an Antisense Oligomer Complementary to the rev gene of HIV-1. <i>Biochemical Pharmacology</i> , Vol. 45, 10:2037-2043, 1993.			
*	✓	Briskin M et al., Lipopolysaccharide-unresponsive mutant pre-B-cell lines blocked in NF-kappa B activation. <i>Mol Cell Biol</i> 10(1):422-5, Jan 1990.			
*	✓	Chace, J. et al., Regulation of Differentiation in CD5+ and Conventional B Cells, <i>Clinical Immunology and Immunopathology</i> , (1993), 68:3:327-332.			
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C2	<i>✓</i>	Doe, B., et al., "Induction of cytotoxic T lymphocytes by intramuscular immunization with plasmid DNA is facilitated by bone marrow-derived cells", <i>Proc. Natl. Acad. Sci.</i> , 93:8578-8583, 1996			
*	<i>✓</i>	Englisch et al., Chemically Modified Oligonucleotides as Probes and Inhibitors, <i>Angew. Chem. Int. Ed. Engl.</i> , 30:613-629, 1991.			
*	<i>✓</i>	Erb KJ et al., Infection of mice with Mycobacterium bovis-Bacillus Calmette-Guerin (BCG) suppresses allergen-induced airway eosinophilia. <i>J Exp Med</i> 187(4):561-9, 16 Feb 1998.			
*	<i>✓</i>	Etlinjer, Carrier sequence selection - one key to successful vaccines, <i>Immunology Today</i> , Vol. 13, 2:52-55, 1992.			
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*	<i>✓</i>	Hadden J et al., Immunostimulants. <i>FIPS</i> , (1993), 141:169-174.			
*	<i>✓</i>	Hadden J et al., Immunopharmacology, <i>JAMA</i> , (1992) 268:20:2964-2969.			
*	<i>✓</i>	Halpern MD et al., Bacterial DNA induces murine interferon-gamma production by stimulation of interleukin-12 and tumor necrosis factor-alpha. <i>Cell Immunol</i> 167(1):72-8, 1996.			
*	<i>✓</i>	Hatzfeld J., Release of Early Human Hematopoietic Progenitors from Quiescence by Antisense Transforming Growth Factor β1 or Rb Oligonucleotides, <i>J. Exp. Med.</i> , (1991) 174:925-929.			
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*	<i>✓</i>	Jaroszewski JW and Cohen JS, Cellular uptake of antisense oligonucleotides. <i>Adv Drug Delivery Rev</i> 6(3):235-50, 1991.			
C3	<i>✓</i>	Kataoka, T., et al. "Immunotherapeutic potential in Guinea-Pig Tumor Model of Deoxyribonucleic Acid From Mycobacterium Bovis BCG Complexed with Poly-L-Lysine and Carboxy-Methylcellulose", <i>Jpn J. Med. Sci. Biol.</i> 43:171-182, (1990)			
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*	<i>✓</i>	Kline JN et al., CpG motif oligonucleotides are effective in prevention of eosinophilic inflammation in a murine model of asthma. <i>J Invest Med</i> 44(7):380A, 1996.			
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*	<i>h</i>	Krieg AM et al., "CpG DNA: A Pathogenic Factor in Systemic Lupus Erythematosus?", <i>Journal of Clinical Immunology</i> , (1995) 15:6:284-292			
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*	✓	Whalen R, DNA Vaccines for Emerging Infection Diseases: What If?, <i>Emerging Infectious Disease</i> , Vol. 2, 3:168-175, 1996.			
*	✓	Wu GY et al., Receptor-mediated gene delivery and expression in vivo. <i>J. Biol. Chem.</i> , 263:14621-14624, 1988.			
*	✓	Wu-Pong S., Oligonucleotides: Opportunities for Drug Therapy and Research. <i>Pharmaceutical Technology</i> , 18:102-114, 1994.			
*	✓	Yamamoto S et al., DNA from bacteria, but not from vertebrates, induces interferons, activates natural killer cells and inhibits tumor growth. <i>Microbiol Immunol</i> 36(9):983-97, 1992.			
*	✓	Yamamoto S et al., <i>In vitro</i> augmentation of natural killer cell activity and production of interferon-alpha/beta and -gamma with deoxyribonucleic acid fraction from <i>Mycobacterium bovis</i> BCG. <i>Jpn J Cancer Res</i> 79:866-73, Jul 1988.			
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*	✓	Yamamoto S et al., Unique Palindromic Sequences in Synthetic Oligonucleotides are Required to Induce INF and Augment INF-Mediated Natural Killer Activity. <i>J. Immunol.</i> , Vol. 148, 12:4072-4076, June 15, 1992.			
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*	✓	Yamamoto T et al., Synthetic Oligonucleotides with Certain Palindromes Stimulate Interferon Production of Human Peripheral Blood Lymphocytes <i>in vitro</i> . <i>Jpn. J. Cancer Res.</i> , 85:775-779, 1994.			
*	✓	Yi, Ae-Kyung et al., IFN- γ Promotes IL-6 and IgM Secretion in Response to CpG Motifs in Bacterial DNA and Oligonucleotides, <i>The Journal of Immunology</i> , pp. 558-564 (1996).			
*	✓	Yi, Ae-Kyung et al., Rapid Immune Activation by CpG Motifs in Bacterial DNA, <i>The Journal of Immunology</i> , pp. 5394-5402 (1996).			
*	✓	Zhao Q et al., Stage-specific oligonucleotide uptake in murine bone marrow B-cell precursors. <i>Blood</i> 84(11):3660-6, 1 Dec 1994.			
*	✓	Zhao Q et al., Comparison of cellular binding and uptake of antisense phosphodiester, phosphorothioate, and mixed phosphorothioate and methylphosphonate oligonucleotides. <i>Antisense Res Dev</i> 3(1):53-66, Spring 1993.			
C7	✓	Kuramoto et al., "In Situ Infiltration of Natural Killer-Like Cell sInduced by Intradermal Injection of the Nucleic Injection of the Nucleic Acid Fraction from BCG", <i>Microbiol. Immunol.</i> , 33:11:929-940, (1989)			

FORM PTO-1449 (Modified)		ATTY. DOCKET NO.		SERIAL NO	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		C1039/7022		09/337,893	
		APPLICANT Krieg			
		FILING DATE June 21, 1999		GROUP 1633	
C8	<input checked="" type="checkbox"/>	Morahan, P., et al., "Comparative Analysis of Modulators of Nonspecific Resistance Against Microbial Infections", <i>Immunopharmacology of Infectious Diseases: Vaccine Adjuvants and Modulators of Non-Specific Resistance</i> , 313-324, (1987)			
C9	<input checked="" type="checkbox"/>	Vogels, M., et al., "Use of Immune Modulators in nonspecific Therapy of Bacterial Infections", <i>Antimicrobial Agents and Chemotherapy</i> , 36:1:1-5, (1992)			

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 08/738,652, filed October 30, 1996, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

EXAMINER	DATE CONSIDERED
<i>[Signature]</i>	9/27/00

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

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